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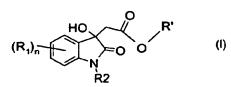
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$$(R_1)_n \xrightarrow{HO}_{N} R3$$

$$R4$$
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DOSENBACH, Oliver (DE/DE); Kirchstrasse 2, 79415 Bad Bellingen (DE). SPRENGER, Daniel [CH/CH]; Schwarzwaldallee 255, CH-4058 Basel (CH).

(54) Title: SYNTHESIS OF AMINES AND INTERMEDIATES FOR THE SYNTHESIS THEREOF

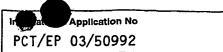
(57) Abstract: The invention relates in a first embodiment to a method for the manufacture of esters of the formula (I), or especially of amides of the formula (II), wherein the symbols have the meanings given in the specification, as well as other intermediates and compounds useful in the synthesis methods and intermeof amides of the formula (II), wherein the symbols have the meanings given in the specification, as well as other intermediates and compounds useful in the synthesis of tryptamines and other substances mentioned in the title. The synthesis methods and intermediates are useful in the synthesis of pharmaceuticals.





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C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
Α	US 6 114 536 A (TORU ESAKI ET A	1.)	1
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Patent document dted in search report		Publication date		Patent family member(s)	Publication date
US 6114536	Α	05-09-2000	AT	217864 T	15-06-2002
			AU	6044894 A	14-09-1994
			CA	2156287 A1	01-09-1994
			CN	1117727 A ,B	28-02-1996
			CZ	9502096 A3´	13-12-1995
			DE	69430664 D1	27-06-2002
			DE	69430664 T2	30-01-2003
			EP	0685463 A1	06-12-1995
			ES	2176236 T3	01-12-2002
			FI	953866 A	16-08-1995
			ΗÜ	74105 A2	28-11-1996
			JP	3419539 B2	23-06-2003
			JP	7048349 A	21-02-1995
			WO	9419322 A1	01-09-1994
			KR	226310 B1	15-10-1999
			NO	953235 A	09-10-1995
			PL	310168 A1	27-11-1995
			RU	2128170 C1	27-03-1999
			SG	67938 A1	19-10-1999
			US	6207836 B1	27-03-2001
			US	6127544 A	03-10-2000
			US	6031111 A	29-02-2000
			US	5952511 A	14-09-1999
			ZA	9401092 A	08-03-1995